Courses Description – 1st Year (Property Year) (New Study Plan)



Dean Of Faculty Of Medicine **Deputy Dean For Scientific Affairs**

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1 st Course: Physics					
Course Title And Code:					
Physics.					
Credit Hours:					
3 theoretical hours/week (18 weel	ks) - 2 practical hours/week.				
Level/Year At Which This Course I	s Offered:				
1 st year (Property Year) – 1 st seme	ster.				
Course Description:					
 Principles Of Modern Physics. 	 Vibration And Wavelet 				
 Atomic Structure - Atomic 	Movements.				
Characteristi <mark>cs.</mark>	 Sound: Emission, Hearing And 				
 Light Science. 	The Sub-Audible Sounds.				
• UV.	Echo Imaging.				
 X-Ray And Its Applications. 	 Doppler Effect And Blood 				
 Thermal Radiation (Infrared). 	Velocity Measurement.				
 Terahertz Waves Or Terahertz 	 Gravel Cutter And Acoustic 				
Rays.	Power.				
 Microwave Waves. 	 Photographic Flexibility In 				
 Types And Characteristics Of 	Ultrasound.				
Lasers. • Generation Of Magnetic Fields					
 Laser Imaging. 	And Properties Of Magnetic				
 Laser Applications. 	Material.				
Nucleic Structure And Nuclear	 Nuclear Magnetic Response 				
Properties.	And Magnetic Response				
Radionuclides And Nuclear	Imaging.				
Medicine.	 Superconductivity: Origin And 				
 Material And Hydrodynamics. 	Applications.				
Educational Outputs The Student	Should Acquire:				

- **1- Knowledge and understanding of course topics.**
- **2- Practical applications.**
- **3- Developing logical judgment communication skills.**

Ministry Of Higher Education And Scientific Research

Al-Baath University

Faculty Of Medicine

4- Ability to analyze and managing data.

Teaching & Training Methods:

1- Theoretical course.

2- Practical training.

3- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Practical examination 30 credits:

Through practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.

SPRIA



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2nd Course: Chemistry

Zucours	Z ^{an} Course: Chemistry				
Course Title And Code:					
Chemistry.					
Credit Hours:					
4 theoretical hours/week (18 w	eeks) - 2 practical hours/week.				
Level/Year At Which This Cours	se is Offered:				
1 st year (Property Year) <mark>– 1st se</mark>	me <mark>s</mark> ter.				
Course Description:					
 Mol And Equations. 	• Hydrocarbons.				
 Atomic Structure. 	 Halogenated Alkanes. 				
 Electrons In Atoms. 	 Alcohols And Esters. 				
Chemical Bonding.	Carbonyl Compounds.				
States Of Matter.	Ion Balance.				
Enthalpy Changes.	 Kinetics Of Interactions. 				
 Oxidation, Reaction And 	Transition Metals.				
Electrolysis Reactions.	 Benzene And Its Compounds. 				
• Equilibrium.	Carboxylic Acids.				
 Interaction Velocity. 	Organic Nitrogen Compounds.				
• Periodic.	Polymerization.				
 Nitrogen And Sulfur. 	Biochemistry.				
Introduction To Organic	Design And Materials.				
Chemistry.	RSI				

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.
- **2- Practical applications.**
- **3- Developing logical judgment communication skills.**
- 4- Ability to analyze and managing data.

Ministry Of Higher Education And Scientific Research

Al-Baath University

Faculty Of Medicine

Teaching & Training Methods:

1- Theoretical course.

- **2- Practical training.**
- **3- Educational multi-media tools.**

Assessment Strategy And Credits:

100 credits:

Practical examination 30 credits:

Through practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

Automated examination at the end of the semester.

SYRIA



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3rd Course: Cell Biology

Course Title And Code:

Cell Biology.

Credit Hours:

3 theoretical hours/week (18 weeks) - 2 practical hours/week.

Level/Year At Which This Course Is Offered:

1st year (Property Year) – 1st semester.

Course Description:

- Introduction To Cell Biology.
- Biochemical Structure Of The Cell.
- Structure And Function Of Cell Organelles.
- Structure And Function Of The Nucleus.
- Cell Membrane.
- The Cytoskeleton: Structure, Function, And Cell

Locomotion.

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.
- **2- Practical applications.**
- **3- Developing logical judgment communication skills.**
- 4- Ability to analyze and managing data.

Teaching & Training Methods:

- **1- Theoretical course.**
- **2- Practical training.**
- **3- Educational multi-media tools.**

- Cell Signaling.
 Differentiation, Stem Cells And
 - Apoptosis.

Cell Adhesion.

Cell Energetics.

Inheritance.

Mitosis And Cell Cycle.

• Miosis And Chromosomes

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Faculty Of Medicine

Assessment Strategy And Credits:

100 credits:

Practical examination 30 credits:

Through practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:



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Al-Baath University

Faculty Of Medicine



4th Course: History Of Medical Sciences

<u>Course Title And Code:</u> History Of Medical Sciences. <u>Credit Hours:</u> 2 theoretical hours/week (18 weeks). <u>Level/Year At Which This Course Is Offered:</u> 1st year (Property Year) – 1st semester. <u>Course Description:</u>

- History of Medical Sciences in Ancient Civilizations.
- Medical Sciences in Arab and Islamic Civilization.
- Evolution of medical sciences in Europe and America.
- The evolution of science in the world (the stage of micromedical specialties).

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.
- 2- Ability to analyze and managing data.

Teaching & Training Methods:

- **1- Theoretical course.**
- 2- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Evaluation of theoretical Knowledge 100 credits:

Automated examination at the end of the semester.

History of medical sciences in modern and contemporary history (from the 16th century until today).

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Al-Baath University

Faculty Of Medicine



5th Course: English Language (1)

Course Title And Code: English Language (1). **Credit Hours:** 2 theoretical hours/week (18 weeks). Level/Year At Which This Course Is Offered: 1st year (Property Year) – 1st semester **Educational Outputs The Student Should Acquire:** 1- Knowledge and understanding of course topics. 2- Ability to analyze and managing data. Tea<u>ching & Training Methods:</u> 1- Theoretical course. 2- Educational multi-media tools. **Assessment Strategy And Credits: 100 credits: Evaluation of theoretical Knowledge 100 credits:** Automated examination at the end of the semester.

SFRIA

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Al-Baath University

Faculty Of Medicine



6th Course: Anatomy

Course	Title	And	Code:	
A				

Anatomy.

Credit Hours:

3 theoretical hours/week (18 weeks) - 2 practical hours/week.

Level/Year At Which This Course Is Offered:

1st year (Property Year) – 2nd semester.

Course Description:

- Introduction In General Anatomy.
- Skeleton Bones And Joints.
- Muscular System.
- Respiratory System.
- Cardiovascular System.

- Digestive System.
- Urinary System.
- Reproductive System.
- Central Nervous System.
- Peripheral Nervous System.
- Sensory Organs.

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.
- 2- Practical applications.
- **3- Developing logical judgment communication skills.**
- 4- Ability to analyze and managing data.

Teaching & Training Methods:

- **1- Theoretical course.**
- **2- Practical training.**
- 3- Educational multi-media tools.

Assessment Strategy And Credits:

100 credits:

Practical examination 30 credits:

Through practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

Ministry Of Higher Education And Scientific Research

Al-Baath University

Faculty Of Medicine



7th Course: Medical Physiology <u>Course Title And Code:</u>

Medical Physiology.

Credit Hours:

3 theoretical hours/week (18 weeks) - 2 practical hours/week. Level/Year At Which This Course Is Offered:

1st year (Property Year) – 2nd semester.

Course Description:

<u> </u>			
•	Introduction To Physiology.	•	Respir <mark>at</mark> ory System.
•	Physiology Of Excitable	•	Urinary S <mark>yst</mark> em.
	Tissues.	•	Metabolism And Energy
•	The Blood.		Balance.

• Autonomic Nervous System.

• The Heart.

Digestive System.
Endocrine System.

Circulatory System.

• Nervous System.

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.
- **2- Practical applications.**
- **3- Developing logical judgment communication skills.**
- 4- Ability to analyze and managing data.

Teaching & Training Methods:

- **1- Theoretical course.**
- 2- Practical training.
- **3- Educational multi-media tools.**

Assessment Strategy And Credits:

100 credits:

Practical examination 30 credits:

Through practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:

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Al-Baath University

Faculty Of Medicine



8th Course: Medical Statistics

Course Title And Code:

Medical Statistics.

Credit Hours:

2 theoretical hours/week (18 weeks) - 2 practical hours/week.

Level/Year At Which This Course Is Offered:

1st year (Property Year) – 2nd semester.

Course Description:

- Introduction To Statistics And Biomedical Statistics.
- Types Of Variables And Measurement Scales.
- Methods Of Data Collection.
- Means Of Summarizing And Presenting Data.
- The Population And The Sample.
- Related Distributions.

- Statis<mark>tical Inference And Hypothesis Testing.</mark>
- Comparison Of Averages And Ratios.
- Interdependence And Forecasting.
- Sources Of Data Collection.
- Population And Health Sciences.
- Medical Records.

Educational Outputs The Student Should Acquire:

- 1- Knowledge and understanding of course topics.
- **2- Practical applications.**
- **3- Developing logical judgment communication skills.**
- 4- Ability to analyze and managing data.

Teaching & Training Methods:

- **1- Theoretical course.**
- 2- Practical training.
- **3- Educational multi-media tools.**

Ministry Of Higher Education And Scientific Research

Al-Baath University

Faculty Of Medicine

Assessment Strategy And Credits:

<u>100 credits:</u>

Practical examination 30 credits:

Through practical evaluation and laboratory experiments.

Evaluation of theoretical Knowledge 70 credits:



Ministry Of Higher Education And Scientific Research

Al-Baath University

Faculty Of Medicine



9th Course: Genetics

Course Title And Code:					
Genetics.					
<u>Credit Hours:</u>					
2 theoretical hours/week (18 weeks).					
Level/Year At Which This Course Is Offered:					
1 st year (Property Year) – 2 nd seme	ester.				
Course Description:					
 Introduction To Medical 	Genetic Engineering				
Genetics.	Technology.				
 Mendelian Inheritance. 	Human Genome.				
 Non–Mendelian Inheritance. 	 Chromosomes Abnormality 				
 Genetic Material And 	(Aberrations).				
Chromosomes.	Genetic Counseling.				
 DNA Replication. 	Immunogenetics.				
• Transcrip <mark>ti</mark> on.	Pharmacogenetics.				
 Translation And Protein 	Cancer Genetics.				
Synthesis.	Human Population Genetics.				
 Regulation Of Gene 	Genetics Of Common				
Expression.	Diseases.				
Educational Outputs The Student	Should Acquire:				
1- Knowledge and understanding	of course topics.				
2- Ability to analyze and managing	g data.				
Teaching & Training Methods:	285				
1- Theoretical course.	UNIVES				
2- Educational multi-media tools.					
Assessment Strategy And Credits:					
<u>100 credits:</u>					
Evaluation of theoretical Knowledge 100 credits:					
Automated examination at the end of the semester.					

Ministry Of Higher Education And Scientific Research

Al-Baath University

Faculty Of Medicine



10th Course: English Language (2)

Course Title And Code: English Language (2). Credit Hours: 2 theoretical hours/week (18 weeks). Level/Year At Which This Course Is Offered: 1st year (Property Year) – 2nd semester Educational Outputs The Student Should Acquire: 1- Knowledge and understanding of course topics. 2- Ability to analyze and managing data. Teaching & Training Methods: 1- Theoretical course. 2- Educational multi-media tools. Assessment Strategy And Credits: 100 credits:

Automated examination at the end of the semester.

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